

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application:

IN THE CLAIMS

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Canceled)
22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (Canceled)
26. (Canceled)
27. (Canceled)
28. (Canceled)
29. (Currently amended): A plant expression cassette allowing ~~the~~ tissue specific expression of a gene of interest comprising ~~the~~ a promoter of ~~the~~ a gene coding for ~~the~~ protein basic globulin ~~7-S-7S~~.
30. (Currently amended): The plant expression cassette

according to claim 29, wherein said promoter has the sequence ~~reported in the annexed sequence listing as of~~ SEQ ID NO:21.

31. (Previously presented): The plant expression cassette according to claim 29, wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin ~~7-S-7S~~.

32. (Currently amended): The plant expression cassette according to claim 31, wherein said leader sequence is the sequence ~~reported as of~~ SEQ ID NO: 13.

33. (Previously presented): A recombinant DNA vector comprising a gene of interest under the control of the plant expression cassette according to claim 29.

34. (Previously presented): The vector according to claim 33 wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin ~~7-S-7S~~ and wherein said gene of interest is fused to the leader sequence.

35. (Currently amended) A plant expression cassette allowing tissue specific expression of a gene of interest comprising ~~the a~~ promoter of ~~the a~~ gene coding for protein basic globulin 7S or the β -conglycinine protein.

36. (Currently amended): The plant expression cassette according to claim 35, wherein said promoter has the sequence ~~reported in the annexed sequence listing as of~~ SEQ ID NO:22.

37. (Previously presented): The plant expression cassette according to claim 35, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

38. (Currently amended): The plant expression cassette according to claim 37, wherein said leader sequence is the sequence ~~reported as of~~ SEQ ID NO: 14.

39. (Previously presented): A recombinant DNA vector comprising a gene of interest under the control of the plant expression cassette according to claim 35.

40. (Previously presented): The vector according to claim 39 wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein and wherein said gene of interest is fused to the leader sequence.

41. (Previously presented): A vegetal cell including the vector according to claim 33.

42. (Original): A cellular aggregation obtainable from the cell according to claim 41.

43. (Original): The cellular aggregation according to claim 42, said aggregations being calluses capable of regenerating transgenic plants.

44. (Previously presented): A transgenic plant including in a tissue cell the vector according to claim 33.

45. (Original): The transgenic plant according to claim 44, wherein said tissue cell is a storage tissue cell.

46. (Previously presented): The transgenic plant according to claim 44, wherein said tissue cell is a fruit tissue cell.

47. (Previously presented): The transgenic plant according to claim 44, said plant being selected from the group consisting

of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

48. (Original): The transgenic plant according to claim 47, said plant being selected from the group consisting of soya, tobacco and rice.

49. (Previously presented): A method of using the vector according to claim 33 for the transformation of vegetal cells.

50. (Previously presented): A vegetal cell including the vector according to claim 39.

51. (Previously presented): A cellular aggregation obtainable from the cell according to claim 50.

52. (Previously presented): The cellular aggregation according to claim 51, said aggregations being calluses capable of regenerating transgenic plants.

53. (Previously presented): A transgenic plant including in a tissue cell the vector according to claim 39.

54. (Previously presented): The transgenic plant according to claim 53, wherein said tissue cell is a storage tissue cell.

55. (Previously presented): The transgenic plant according to claim 53, wherein said tissue cell is a fruit tissue cell.

56. (Previously presented): The transgenic plant according to claim 53, said plant being selected from the group consisting of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

57. (Previously presented): The transgenic plant according to claim 56, said plant being selected from the group consisting of soya, tobacco and rice.

58. (Previously presented): A method of using the vector according to claim 39 for the transformation of vegetal cells.

59. (New): A plant expression cassette allowing in-seed tissue specific expression of non-degraded human lactoferrin wherein a gene encoding the human lactoferrin is operatively linked to a regulation element of protein basic globulin 7S or to a regulation element of protein β -conglycinine.

60. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the promoter of the gene coding for the protein basic globulin 7S.

61. (New): The plant expression cassette according to claim 60, wherein said promoter has the sequence of SEQ. ID NO 21.

62. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes a leader sequence of the gene coding for the protein basic globulin 7S.

63. (New): The plant expression cassette according to claim 62 wherein said leader sequence is the sequence of SEQ. ID NO: 13.

64. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the promoter of the gene coding for the β -conglycinine protein.

65. (New): The plant expression cassette according to claim 64, wherein said promoter has the sequence of SEQ. ID NO 22.

66. (New): The plant expression cassette according to claim 59, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

67. (New): The plant expression cassette according to claim 66 wherein said leader sequence is the sequence of SEQ. ID NO: 14.

68. (New): The plant expression cassette of claim 59 wherein said gene encoding the human lactoferrin has the sequence of SEQ ID NO 1.

69. (New): A recombinant DNA vector comprising the plant expression cassette of claim 59.

70. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes a promoter of the gene coding for the protein basic globulin 7S.

71. (New): The recombinant DNA vector according to claim 70, wherein said promoter has the sequence of SEQ. ID NO 21.

72. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the leader sequence of the gene coding for the protein basic globulin 7S.

73. (New): The recombinant DNA vector according to claim 72 wherein said leader sequence is the sequence of SEQ. ID NO: 13.

74. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the promoter of the gene coding for the β -conglycinine protein.

75. (New): The recombinant DNA vector according to claim 16, wherein said promoter has the sequence reported in the annexed

sequence listing as SEQ. ID NO 22.

76. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the leader sequence of the gene coding for the β -conglycinine protein.

77. (New): The recombinant DNA vector according to claim 76 wherein said leader sequence is the sequence of SEQ. ID NO: 14.

78. (New): The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the gene coding for human lactoferrin having SEQ ID NO: 1.

79. (New): A method for using the vector according to claim 69 for the transformation of vegetal cells.

80. (New): A vegetal cell including the vector of claim 69.

81. (New): A cellular aggregation obtainable from cells according to claim 80.

82. (New): The cellular aggregation according to claim 81 wherein said aggregations are calluses capable of regenerating transgenic plants

83. (New): A transgenic plant, comprising the expression cassette of claim 59, said plant expressing in-seed the non-degraded protein human lactoferrin.

84. (New): The transgenic plant according to claim 83, said plant being selected from the group consisting of solanaceae, cereals, leguminosae, fruit bearing plants and horticultural plants.

85. (New): The transgenic plant according to claim 84, said plant being selected from the group consisting of soya, tobacco and rice.

86. (New): A method of using the transgenic plant according to claim 83 for the production of non-degraded human lactoferrin.

87. (New): A method of using the transgenic plant according to claim 83 for the production of human lactoferrin flours or human lactoferrin extracts obtained from seeds of said transgenic plant.

88. (New): A method of using the transgenic plant according to claim 83 for the production of functional foods containing human lactoferrin.

89. (New): The method according to Claim 88, wherein said functional foods are selected from the group consisting of vegetal milks, fruit juices, fruit and/or vegetable homogenized foods.

90. (New): A method of using the transgenic plant of claim 83 for the production of nutraceuticals comprising human lactoferrin.